

Date: Monday, 1/7/2008 11:37:51 AM  
 User: Kim Johnston

## Process Sheet

5

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : 350 SKIDTUBE ASSEMBLY LH  
 Job Number : 36605  
 Estimate Number : 10262  
 P.O. Number :  
 This Issue : 1/7/2008 S.O. No. :  
 Prsht Rev. : NC Part Number : D350636011  
 First Issue : 1/1 Type : LANDING GEAR Drawing Number : D2750 REV E  
 Previous Run : 36604 Drawing Revision : E  
 Material :  
 Due Date : 1/30/2008 Qty: 1 Um: Each  
 Written By :  
 Checked & Approved By :  
 Comment :  
 Est Rev: I 02-09-25 Rearranged procedure steps KJ  
 Est Rev: J 06-03-23 As per Rev D JLM  
 Est Rev: K 06-07-13 As per dsi9343 EC  
 Est Rev: L 07-07-28 Added SS Wearplates (Rev E) JLM  
 Verified By: EC

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy blue file and type labels per PPP D350-636-011 CHG 003

08.01.22

2.0 D26003BENT Extrusion Bent



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D2600-3-Bent

Extrusion (Bent)

B 35527 ①

8-1-8

3.0 D2744 Fwd Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Cap

Batch

B 33996 BE 08-01-09

4.0 LANDING GEAR 1 LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1- Mark cut line on aft end of D2600-3-Bent using Jig DT 8150. Cut to length as per Dwg D2750. Deburr end

2- Drill pilot holes as per Dwg D2750 sheet 3 (D2750-1 details). Drill using drill Jig DT8150 & DT8863.

8-1-8

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description:

3- Mark fwd end for cutting using Drill Jig DT 8150 & DT8863 and cut as per dwg D2750.

4-Drill pilot holes for Detail B using DT8330

5-Open up holes for Detail B to 0.375" and blade fitting location holes to 0.500" as per dwg D2750 .Open up detail E to 0.500".Open up ground handling holes to 0.500".

6-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 and open to 0.297" : \*\*\*\*\*Make sure that wearplate holes are on bottom of tube\*\*\*\*\* Open holes to detail A to 0.297"

7-Open up holes of Detail A to 0.250" (total of 2 holes per side)

9-Weld D2744 Cap as per Dwg D2750 and QSI 004.Fill grooves in bend left from bending as per QSI 004.  
A/R Aluminum Rod *M 106330 BE 8-01-09*

10-Grind welds flush as per Dwg D2750 *M 8-1-10*

12- Scribe batch# inside per dwg D2750 *M 8-1-8*

5.0

QC9

VISUAL WELDING INSPECTION



Comment: VISUAL WELDING INSPECTION

*PD 08-01-10*

6.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*08/01/10 PD*

7.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

*M 8-1-10*

8.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

*BE 08-01-10*

9.0

D2739

350 I Beam



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Web

Batch:

*B 36156*

*(1)*

*M*

*8-1-10*

W/O:		WORK ORDER CHANGES							
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description :

10.0

D34901

CROSS BOLT SPACER



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Crossbolt spacer

Batch: B 33824

BE 08/01/14

11.0

D34903

CROSS BOLT SPACER



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Crossbolt spacer

Batch: B 33825

BE 08/01/14

12.0

D2743

Crossbolt Spacer



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Crossbolt Spacer

Batch: B 36030

BE 08/01/14

13.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Open up holes of Detail V & Detail C to 0.625" (total of 8 holes per side)  
as per dwg D2750.

2-Open up holes of Detail D to 0.750" (total of 4 holes per side)  
as per dwg D2750.

3-Chamfer holes of Detail V, Detail C, Detail D and hole size "W" per dwg D2750 (welding instructions on  
sheet 4)

4-Deburr and blow out all chips from inside of tube

6-Bond web D2739 in place as per QSI 015

A/R Sikaflex-291 batch: M 125488  
exp. date: 8-7-1

7- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004  
(welding instructions on sheet 4)

A/R Aluminum Rod batch: M 106330 BE 08/01/14

8-Grind welds flush as per Dwg D2750

9-Spot face ground handling holes section J-J (total of 4 places per side) as per dwg D2750

8-7-10

8-1-14

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number:



Seq. #:

Machine Or Operation:

Description:

10-Deburr holes

14.0

QC9

VISUAL WELDING INSPECTION



Comment: VISUAL WELDING INSPECTION

PD 08-01-15 (1)

15.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

08/01/14 (2)

16.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Pressure wash as per QSI 005

08-01-21 (1)

17.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat Gloss White (Ref. 4.3.5.1) as per Dart QSI 005 4.3

M 106379

M-L 08/01/21

18.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

Inspect for foreign object per QSI 024

FL 08/01/22 (1)

19.0

ALS41032225

Insert



Comment: Qty.: 42.0000 Each(s)/Unit Total: 42.0000 Each(s)

Insert

Batch: M 100481

FL

20.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Install inserts as per Dwg D2750

FL 08/01/22 (1)

21.0

D2745

Bushing



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Bushing

Batch: M 34817

FL 08/01/22 (1)

W/O:		WORK ORDER CHANGES						
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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description:

22.0

D353513

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

WEARSHOE

Batch:

B36423

*FL*

23.0

D353525

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

WEARSHOE

Batch:

B36424

*FL*

24.0

D353535

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

WEARSHOE

Batch:

B36425

*FL*

25.0

D353613

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

GASKET

Batch:

B35565

*FL*

26.0

D353625

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

GASKET

Batch:

B35566

*FL*

27.0

D353635

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

GASKET

Batch:

B36017

*FL*

28.0

D35371

WEARPAD



Comment: Qty.: 5.0000 Each(s)/Unit Total: 5.0000 Each(s)

WEARPAD

Batch:

B36363

*FL 08/01/22 (1)*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Drawing Name: 350 SKIDTUBE ASSEMBLY LH

Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description :

29.0

D36311

WASHER



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

WASHER

Batch: ~~036~~ 034276

FL

30.0

D3488041

BLADE FITTING ASSEMBLY, LH



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Blade Fitting, LH

Batch: 035586

FL

31.0

D3492041

PLUG ASSEMBLY



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

PLUG ASSEMBLY

Batch: 036123

FL

32.0

D3492043

PLUG ASSEMBLY



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

PLUG ASSEMBLY

Batch: 036237

FL

33.0

AN3C5A

Bolt



Comment: Qty.: 38.0000 Each(s)/Unit Total : 38.0000 Each(s)

Bolt

Batch: m106552

FL

34.0

AN3C6A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Bolt

Batch: m105057

FL

35.0

AN3C7A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

BOLT

Batch: m105906

FL 08/01/22 ①

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description :

36.0

AN6C44A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

BOLT

Batch: *m106662*

*FL*

37.0

AN8C35A

BOLT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

BOLT

Batch: *m102671*

*FL*

38.0

AN960C10L

washer



Comment: Qty.: 46.0000 Each(s)/Unit Total : 46.0000 Each(s)

washer

Batch: *m106785*

*FL*

39.0

AN960C816L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

WASHER

Batch: *m106513*

*FL*

40.0

MS210436

NUT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

NUT

Batch: *m103693*

*FL*

41.0

MS21083C8

NUT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

NUT

Batch: *m106431*

*FL*

42.0

NAS1515H3L

WASHER



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

WASHER

Batch: *m105116*

*FL 08/01/22 ①*

W/O:		WORK ORDER CHANGES						
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description :

43.0

NAS1515H8L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

WASHER

Batch: M105430

FL

44.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Inspect for Foreign Objects

2-Spray inside of tube with "LPS-3" batch: M106096

3-Install blade fitting D3488-041, wearshoes and ground handling hardware as per dwg D2750

SIKA FLEX 241

BATCH: M105585

EXP DATE: 08-01

4-Coat all exposed fasteners with "LPS Procyon" batch: M104251

FL 08/01/22 (1)

45.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

08/01/22 (1)

46.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

47.0

D2741

Blade



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Blade

Batch: 35435

AS 08/01/23 (X1)

48.0

AN8C21A

BOLT



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Bolt

Batch: 105160

AS 08/01/23 (X1)

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number: 36605

Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description:

49.0

AN960C816L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Washer

Batch: 106513

AS

08/01/23

(X1)

50.0

NAS1515H8L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

WASHER

Batch: 105430

AS

08/01/23

(X1)

51.0

MS21083C8

NUT



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Nut

Batch: 106431

AS

08/01/23

(X1)

52.0

D34931

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

WASHER

Batch: 36034

AS

08/01/23

(X1)

53.0

D35321

spacer



Comment: Qty.: 2.0000 (s)/Unit Total: 2.0000 (s)

batch: 33085

AS

08/01/23

(X1)

54.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

08-01-24 (X1)

55.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Package as per PPP D350-636-011

Rev P 8/1/24 SCL (X1)

36605

2008/1/24  
W

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Part Number: D350636011

Job Number:



Seq. #:

Machine Or Operation:

Description :

56.0

QC21

FINAL INSPECTION/W/O RELEASE



08.01.25  
H

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries





DESIGN <i>PH</i>	DRAWN BY <i>CB</i>	<b>DART AEROSPACE USA, INC.</b> PORT HADLOCK, WA	
CHECKED <i>PH</i>	APPROVED <i>[Signature]</i>	DRAWING NO. <b>D2750</b>	REV. E SHEET 2 OF 5
DATE <b>07.05.17</b>		TITLE <b>350 SKIDTUBE ASSEMBLY</b>	SCALE NTS

GENERAL NOTES:

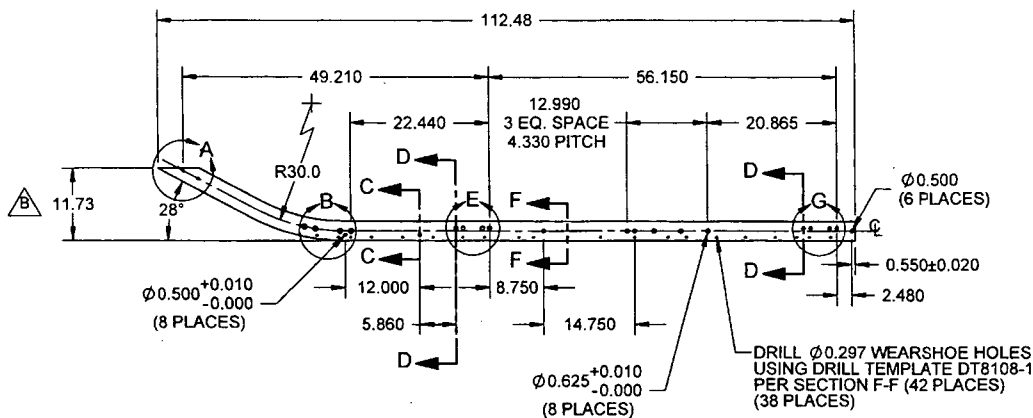
**RELEASED**  
*07-08-02 [Signature]*

1. ALL DIMENSIONS ARE IN INCHES.
2. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
3. MAKE FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
4. DAMAGE TOLERANCE ON BENDING:  
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 12 INCHES ABOVE THE GROUND. NO GOUGING IS ACCEPTABLE IN THE FLAT PORTION OF THE TUBE. GOUGES UP TO 0.020 ARE ACCEPTABLE IN THE BENT PORTION OF THE TUBE. TUBE O.D. SHOULD BE  $3.150 \pm 0.010$  IN THE FLAT PORTION OF THE TUBE. TUBE O.D. SHOULD BE  $3.15 \pm 0.030$  IN THE BENT PORTION OF THE TUBE.
5. ALL HOLES DRILLED ON CENTERLINES EXCEPT THOSE NOTED BY SECTIONS C-C, D-D AND F-F.
6. WELDING TO BE DONE PER DART QSI 004.
7. FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:  
MINIMUM YIELD TENSILE STRENGTH = 35 ksi  
MINIMUM ULTIMATE TENSILE STRENGTH = 38 ksi
8. FINISH:  
ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.  
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3  
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
9. INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED IN D2750-1/-2/-3/-4 WELDING DETAIL ON PAGE 4 AND 5. DRILL 'F' SIZE HOLES ( $\emptyset 0.297$ ) FOR WEARSHOE INSERTS.
10. D3488-041 (OR D3488-042) BLADE FITTING AND AN3C5A/AN3C7A WEARSHOE BOLTS TO BE INSTALLED USING SIKAFLEX-241 (OR EQUIVALENT) SEALANT.
11. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

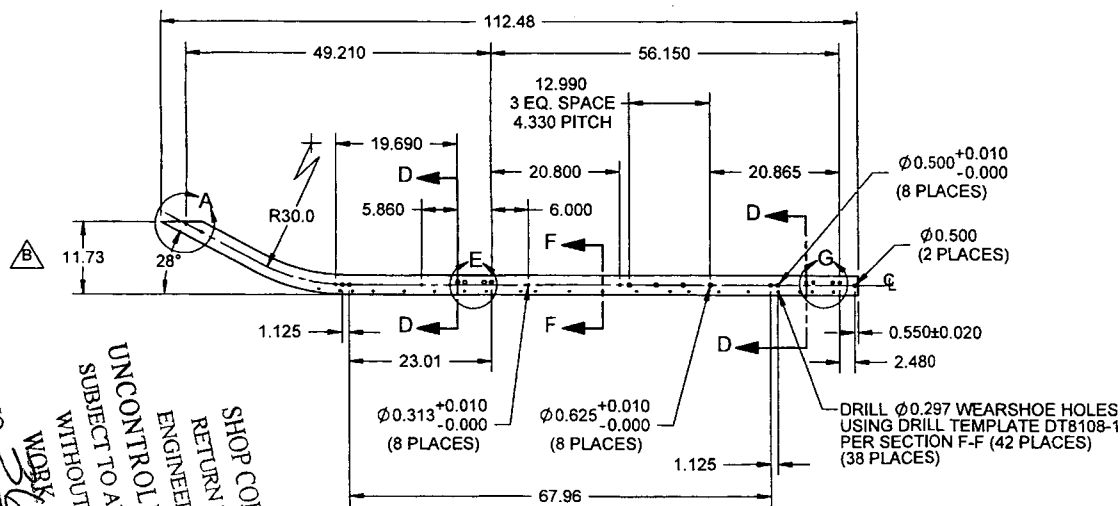
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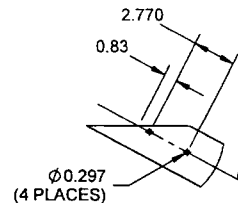
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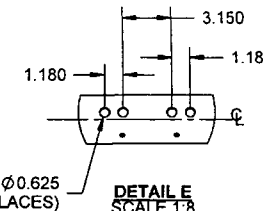
**D2750-1 LH SKIDTUBE (SHOWN)**  
**D2750-2 RH SKIDTUBE (OPPOSITE)**



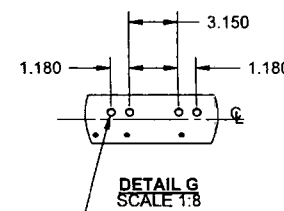
**D2750-3 LH SKIDTUBE (SHOWN)**  
**D2750-4 RH SKIDTUBE (OPPOSITE)**



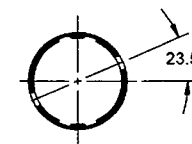
**DETAIL A**  
SCALE 1:8



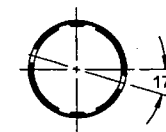
**DETAIL E**  
SCALE 1:8



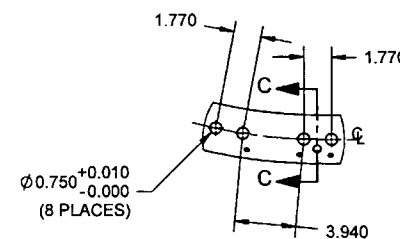
**DETAIL G**  
SCALE 1:8



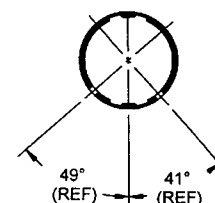
**SECTION C-C**  
SCALE 1:4



**SECTION D-D**  
SCALE 1:4



**DETAIL B**  
SCALE 1:8  
(ALL DIMENSIONS ARE STRAIGHT LINE DIMENSIONS)



**SECTION F-F**  
SCALE 1:4

**RELEASED**

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DESIGN PH	DRAWN BY CB	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED PH	APPROVED [Signature]	DRAWING NO. D2750	REV. E SHEET 3 OF 5
DATE 07.05.17	TITLE 350 SKIDTUBE ASSEMBLY	SCALE 1:20	

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INSTALL ALS4-1032-225  
INSERTS (4 PLACES)  
AFTER FINISH

D2750-1 (LH) OR  
D2750-2 (RH)

INSTALL ALS4-1032-225  
WEARSHOE INSERTS (38 PLACES)  
AFTER FINISH

**D2750-041 ASSEMBLY (SHOWN)  
D2750-042 ASSEMBLY (OPPOSITE)**

BLACK ANTI-SKID

BOND D2739 WEB INTO D2750-1 (OR D2750-2)  
OUTER TUBE WITH NON-STRUCTURAL  
SIKAFLEX-241 ADHESIVE PER DART QSI 015.  
NOTE: ENSURE THAT HOLES LINE UP.

2.0  
(TYP)

1.78 (REF)  
(TO D2739 WEB)

D3488-041  
(OR D3488-042)

NO INSERT

WELDED SPACER  
NOT REQUIRED

D3535-35  
D3536-35

AN3C7A BOLT (REF)

D3537-1

**RELEASED**  
07.05.17

D2744 CAP

**DETAIL H**  
SCALE 1:5

INSTALL:  
AN3C6A BOLT (1)  
AN960C10L WASHER (1)  
NAS1515H3L WASHER (1)  
(4 PLACES)

**SECTION J-J**  
SCALE 1:5

INSTALL AT AFTMOST  
D3537-1 WEARPAD:  
AN3C7A BOLTS (1)  
AN960C10L WASHER (1)  
(4 PLACES)

INSTALL:  
AN3C5A BOLT (1)  
AN960C10L WASHER (1)  
(38 PLACES)

**SECTION N-N**  
SCALE 1:5

D2743 SPACER (REF)

**SECTION M-M**  
SCALE 1:5

**WELDING INSTRUCTIONS**  
1) CHAMFER HOLE 0.050 x 45°  
2) INSERT D2743 SPACER  
3) WELD INTO PLACE  
4) GRIND WELD FLUSH  
5) DRILL OUT SPACER TO Ø0.484  
6) SPOT FACE Ø0.750 (SECTION P-P ONLY)

INSTALL:  
AN6C44A BOLT (1)  
D2745 BUSHING (2)  
D3631-1 WASHER (2)  
MS21043-6 NUT (1)  
(4 PLACES)

**SECTION Q-Q**  
SCALE 1:5

INSTALL:  
AN8C35A BOLT (1)  
AN960C816L WASHER (2)  
NAS1515H8L WASHER (2)  
MS21083C8 NUT (1)

**SECTION R-R**  
SCALE 1:5

D3490-3 SPACER

INSTALL:  
D3492-043 PLUG  
ASSEMBLY  
(2 PLACES)

**SECTION K-K**  
(FOR Ø0.750 HOLES ONLY)  
SCALE 1:5

**WELDING INSTRUCTIONS**  
1) CHAMFER HOLE 0.050 x 45°  
2) INSERT D3490-1 SPACER (4 PLACES) INTO  
Ø0.500 HOLES OR INSERT D3490-3 SPACER  
(4 PLACES) INTO Ø0.750 HOLES  
3) WELD INTO PLACE  
4) GRIND WELD FLUSH  
5) INSERT D3492-041 PLUG ASSEMBLY (8 PLACES)  
INTO D3490-1 SPACER OR INSERT D3492-043  
PLUG ASSEMBLY (8 PLACES) INTO D3490-3 SPACER  
ON BOTH ENDS AFTER FINISH

D3490-1 SPACER

INSTALL:  
D3492-041 PLUG  
ASSEMBLY  
(2 PLACES)

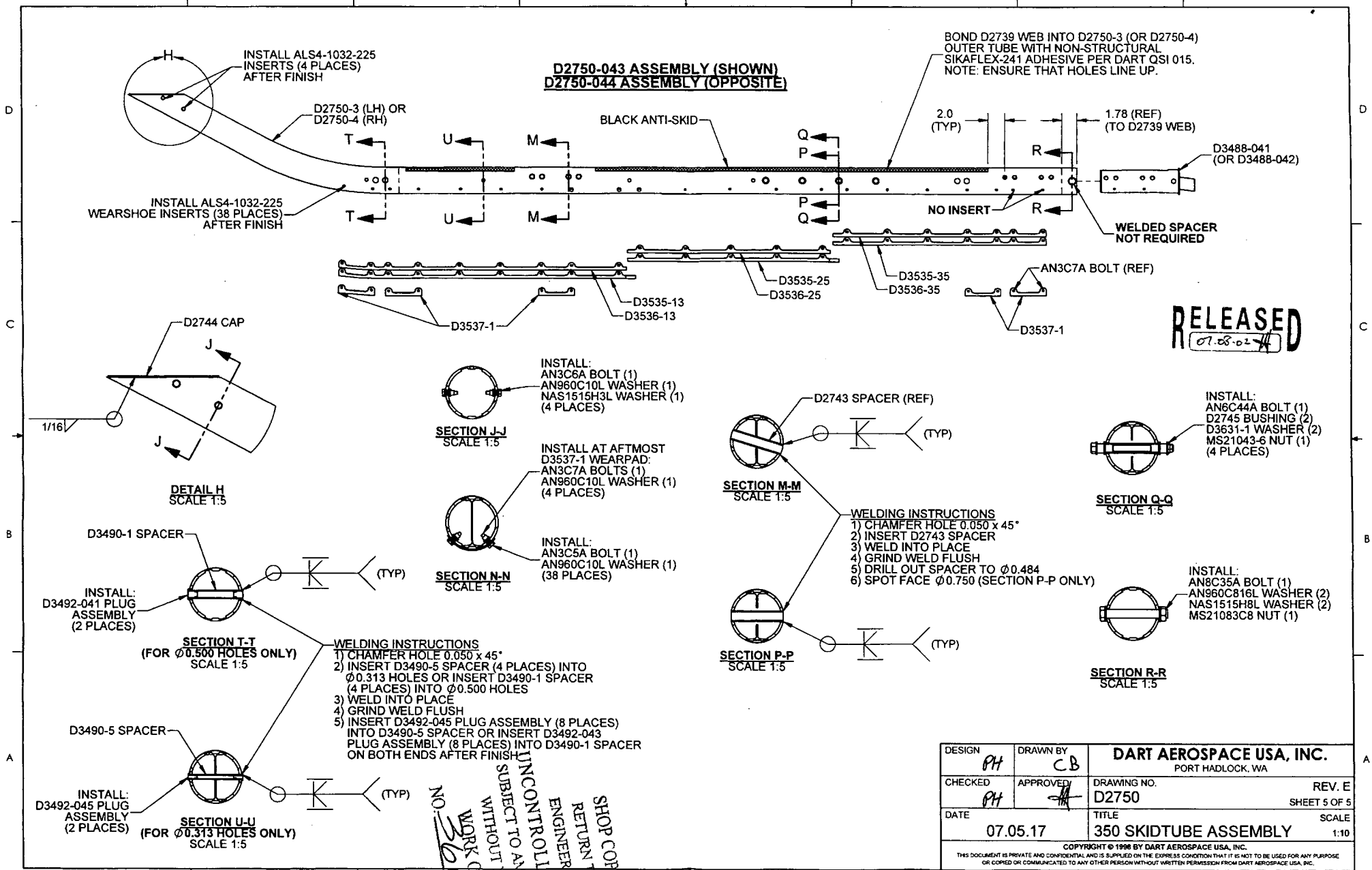
**SECTION L-L**  
(FOR Ø0.500 HOLES ONLY)  
SCALE 1:5

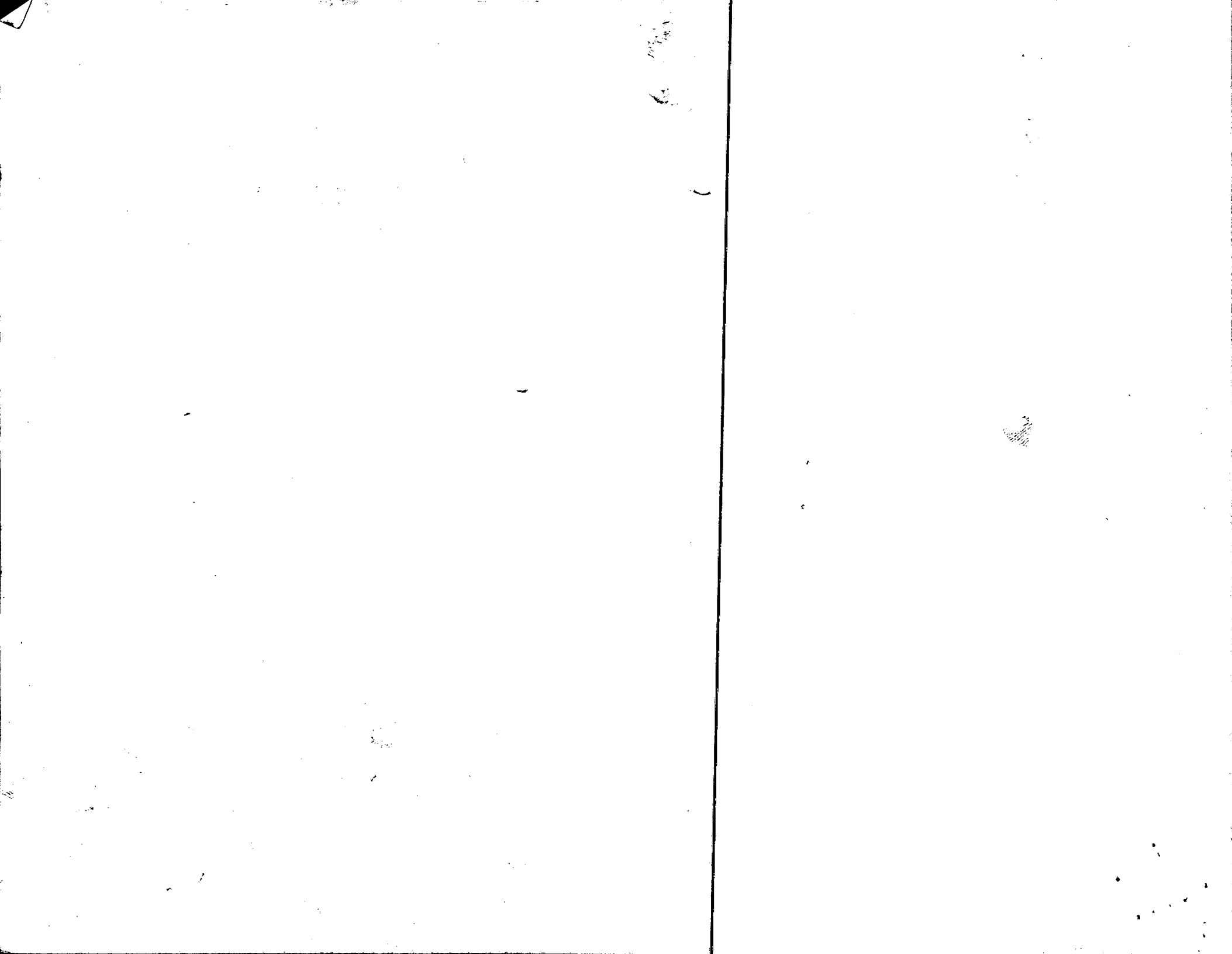
DESIGN	DART AEROSPACE USA, INC.	PORT HADLOCK, WA
CHECKED	DRAWN BY	REV. E
PH	CB	D2750
DATE	APPROVED	SHEET 4 OF 5
07.05.17	HA	SCALE
		1:10
		TITLE
		350 SKIDTUBE ASSEMBLY
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NO. 138

AWS D17.1.2001  
QUALIFICATION TEST RECORD

Name Barclay E.  
Joint Welding Procedure GTAW  
Part number and Job number D350 626 02 / B34 223

TEST WELDS REQUIRED

BASE METAL Aluminum  
Penetration Complete ☐ Partial ☒  
Current AC ☒ DC ☐  
WELDING PROCESS TIG  
Single Weld ☒ Double Weld ☐  
Backing YES ☐ NO ☒

	Position	Vertical	Down <input type="checkbox"/>	Up <input type="checkbox"/>
Sheet Groove	1G <input type="checkbox"/>	2G <input type="checkbox"/>	3G <input type="checkbox"/>	4G <input type="checkbox"/>
Tube Groove	1G <input type="checkbox"/>	2G <input type="checkbox"/>	5G <input type="checkbox"/>	6G <input type="checkbox"/>
Sheet Fillet	1F <input type="checkbox"/>	2F <input type="checkbox"/>	3F <input type="checkbox"/>	4F <input type="checkbox"/>
Tube Fillet	1F <input type="checkbox"/>	2F <input type="checkbox"/>	4F <input type="checkbox"/>	5F <input type="checkbox"/>

Crossbolt Spacer Welded into Skic tube

TEST RESULTS

Visual Pass ☒ Fail ☐  
Penetration Pass ☒ Fail ☐  
Crossbolt Spacer Pass ☒ Fail ☐

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

Date of Test Coupon ~~08-03-06~~ Qualifier Pat. Duval  
08-01-06